PATENT APPLICATION

DOCKET NO.: 0100.1361-027

JMS/GHF/Ib October 25, 200

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/750,547

Group Art Unit: 3744

Peter W. Gaudet, Donald A. Olsen, Michael J. Eacobacci and John T. Harvell

Filed:

December 31, 2003

Examiner:

Confirmation No.:

under 37 CFR 1.97(i):

(Filed after payment of issue fee)

[]

5579

Title:

CRYOPUMP TEMPERATURE CONTROL OF ARRAYS

CERTIFICATE OF MAILING OR TRANSMISSION

a Statement under 37 CFR 1.97(e), as checked below, and

(Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)

Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.

a \$180.00 fee under 37 CFR 1.17(p), or

	I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on: 10 26 6004
	INFORMATION DISCLOSURE STATEMENT
Comm P.O. B	top Amendment issioner for Patents ox 1450 ndria, VA 22313-1450
Sir:	
This I	nformation Disclosure Statement is submitted: under 37 CFR 1.129(a), or (First/Second submission after Final Rejection)
[X]	under 37 CFR 1.97(b), or (Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including CPA, or a Request for Continued Examination).
[]	under 37 CFR 1.97(c) together with either:
	[] a Statement under 37 CFR 1.97(e), as checked below, or
	[] a \$180.00 fee under 37 CFR 1.17(p), or (After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
[]	under 37 CFR 1.97(d) together with:

Statem	ent Und	ler 37 C	FR 1.97(e)
[]	any cor	nmunic	information contained in this Information Disclosure Statement was first cited in action from a foreign patent office in a counterpart foreign application not more of the filing of this Information Disclosure Statement; or
[]	knowle	inication edge of tondard	ormation contained in this Information Disclosure Statement was cited in a from a foreign patent office in a counterpart foreign application, and, to the the undersigned, after making reasonable inquiry, no item of information contained it in disclosure statement was known to any individual designated in 37 CFR man three months prior to the filing of this Information Disclosure Statement.
Statem	ent Unc	ler 37 C	FR 1.704(d) (Patent Term Adjustment) Applies to original applications (other than design) filed on or after May 29, 2000
[]	commu was no	inication t receive	information contained in the Information Disclosure Statement was cited in a in from a foreign patent office in a counterpart application and this communication ed by any individual designated in § 1.56(c) more than thirty days prior to the formation Disclosure Statement.
[X]	Enclos	ed herev	with is form PTO-1449:
	[X]	Copies	of the cited references are enclosed.
		[X]	Since this application was filed after June 30, 2003, copies of issued U.S. patents and published U.S. applications are not required and are not being provided.
	[]	Applic	of the cited references are enclosed except those entered in prior application, U.S. ation No. [], to which priority under 35 U.S.C. 120 is claimed. [The earlier tion contains copies of the cited references.]
	[]	The lis	ted references were cited in the enclosed International Search Report in a rpart foreign application.
	[X]	The "counder 3	oncise explanation" requirement (non-English references) for references AO-AQ 37 CFR 1.98(a)(3) is satisfied by:
		[]	the explanation provided on the attached sheet.
		[]	the explanation provided in the Specification.
		[]	submission of the enclosed International Search Report.
		[]	submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action.
		[X]	the enclosed English language abstract.

[]	Ap	plic	ant requests that the following n	on-published pending applic	ations be considered:
Examiner's	.				
	-		U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []
	-		U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []
	-		U.S. Patent Application No. [], by [inventor(s)], filed [], Docket No.: []
			Examiner	Date	-
	[]	A copy of each above-cited app	olication, including the currer	nt claims, is enclosed.
	[]	A copy of each above-cited app those entered in prior application 35 U.S.C. 120 is claimed.	olication, including the currer on, U.S. Application No. [nt claims, is enclosed, except], to which priority under
The E	xam nces	iner wei	is requested to return a copy of re considered with the next offic	the above list of pending appe communication.	olications indicating which
It is re	eque	sted	that the information disclosed h	erein be made of record in the	is application.
Metho	od o:	f pay	/ment:		
[]	Α	chec	k for the fee noted above is enc panying Reply. A copy of this S	losed, or the fee has been inc Statement is enclosed.	luded in the check with the
[]	Ple en	ease clos	charge Deposit Account 08-038 ed.	30 in the amount of \$[]	. A copy of this Statement is
[X]	Pl	ease	charge any deficiency in fees ar	nd credit any overpayment to	Deposit Account 08-0380.
			F	Respectfully submitted,	
			I	HAMILTON, BROOK, SMI	ΓΗ & REYNOLDS, P.C.
			I	James M. Smith Registration No.: 28,043 Telephone: (978) 341-0036 Facsimile: (978) 341-0136	

Concord, MA 01742-9133 Dated: /0/L5/4

PTO-1449 REPRODUCED	ATTORNEY DOCKET NO. 0100.1361-027		LICATION NO. 1750,547	
INFORMATION DISCLOSURE CITATION N AN APPLICATION October 25, 2004	FIRST NAMED INVENTOR Peter W. Gaudet		FILING DATE 12/31/03	
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PATENTIA				

	·	U.S	S. PATENT DOCUMENTS	
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AA	4,354,356	10-19-1982	Milner
	AB	4,361,418	11-30-1982	Tscheppe
	AC	4,412,851	11-01-1983	Laine
	AD	4,438,632	03-27-1984	Lessard, et al.
	AE	4,546,613	10-15-1985	Eacobacci, et al.
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	AK	4,688,261	08-18-1987	Killoway, et al.
	AA2	4,724,677	02-16-1988	Foster
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	AC2	4,829,774	05-16-1989	Wassibauer, et al.
	AD2	4,918,930	04-24-1990	Gaudet, et al.
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	AC3	5,265,431	11-30-1993	Gaudet, et al.
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	AE3	5,343,708	09-06-1994	Gaudet, et al.
	AF3	5,443,368	08-22-1995	Weeks, et al.
	AG3	5,517,823	05-21-1996	Andeen, et al.
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	AI3	5,575,853	11-19-1996	Arami, et al.
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	AI3	3,832,084	08-27-1974	Maurice
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

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ATTORNEY DOCKET NO. 0100.1361-027		LICATION NO. 750,547		
FIRST NAMED INVENTOR Peter W. Gaudet		FILING DATE 12/31/03		
EXAMINER N/A	CONFII 55 7 9	RMATION NO.	GROUP 3744	

	DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANS YES	LATION NO
AL	CH 652 804 A5	11-29-1985	Balzers Aktiengesellschaft		
AM	GB 2 065 782	07-01-1981	Leybold-Heraeus GmbH		
AN	JP 2-204696	08-1990	Shimazu Corporation	х	
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AP	JP 403182698	08-08-1991	Seiko Seiki Co. Ltd.		2
AQ	JP 4-164188	06-1992	Omato, et al.		2
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION			FILING DATE 12/31/03		
October 25, 2004 (Use several sheets if necessary)	EXAMINER N/A	CONFI 5579	RMATION NO.	GROUP 3744	

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AS	Finley, "Automatic regeneration of multiple cryopumps," <u>J. Vac. Sci. Technology</u> , A4(3), May/June 1986, pp. 310-313.
AT	Temescal product description, September 1982.
AU	Peterson, John F., "Cryopump Regeneration for Optimized Uptime," Solid State Technology, April 1986, pp. 199-201.
AV	Longsworth, R.C., et al., "Cryopump regeneration studies," J. Vac. Sci. Technology, 21(4), Nov./Dec. 1982, pp. 1022-1027.
AW	Peterson, John F. et al., "Vacuum Pump Technology; A Short Course on Theory and Operations," Solid State Technology, January 1982, pp. 104-110.
AX	Sievert, Reinhard, "Regenerating Refrigerator-Cryopumps Cooled," Solid State Technology, May 1986, pp. 90-92.
AY	Singer, Peter H., "Update on Cryogenic Pumps," <u>Semiconductor International</u> , October 1982, pp. 89-99.
AZ	Ehmann, John, "Regeneration of High-Vacuum Cryopumps," Solid State Technology, April 1982, pp. 235-239.
AR2	Brown, Thomas, et al., "Microcomputer Applications in the Space Simulation Laboratory," <u>Proceedings - Institute of Environmental Sciences</u> , 1983, pp. 179-188.
AS2	Sheats, David C., et al., "Microprocessor-Based Cryopump Controller," Cryogenic Conference, August 15-19, 1983.
AT2	Pamphlet, "Cryopumping," CTI-Cryogenics, 1986, 4 pages.
AU2	Brochure, "ATP 1500M, Magnetically Levitated Turbomolecular Pump," Alcatel CIT Industries Division, April 1992, pp. 1-4.
AV2	O'Hanlon, John F., <u>A User's Guide to Vacuum Technology</u> , Second Edition, Chapter 11, "Turbomolecular Pumps," 1989, pp. 181-195.

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

October 25, 2004

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ATTORNEY DOCKET NO. 0100.1361-027	APPLICATION NO. 10/750,547	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
AW2	O'Hanlon, John F., A User's Guide to Vacuum Technology, Second Edition, Section 19.2, "Turbomolecular-Pumped Systems," 1989, pp. 361-368.	
AX2	O'Hanlon, John F., <u>A User's Guide to Vacuum Technology</u> , Second Edition, Section 20.2.2, "Turbomolecular Pumps," 1989, pp. 393-394.	

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